

To: Wall, Dan[wall.dan@epa.gov]; Horn - DNR, Barb[barb.horn@state.co.us]; Peter Butler[butlerpeter2@gmail.com]
From: Hartenstine, Curtis
Sent: Mon 8/10/2015 6:32:21 PM
Subject: RE: For your information

Hi All,

Here is some preliminary pH data collected from one of our sondes below the Home Depot on the northern border of the Reservation. Seems like the plume hit this sonde in the early hours of 8/7. pH remained above 7.0 SUIT throughout. Field crews are out downloading sondes and collecting data now. Once we pull it together, I will share.

Date	Time	Date/Time	Temp C	Sp Cond	pH	DO (sat)	DO (mg/l)
08/06/15	4:00:30	8/6/2015 4:00	15.58	0.286	7.95	70.1	6.98
08/06/15	4:30:30	8/6/2015 4:30	15.49	0.288	7.94	70	6.98
08/06/15	5:00:30	8/6/2015 5:00	15.41	0.289	7.94	70	6.99
08/06/15	5:30:30	8/6/2015 5:30	15.31	0.289	7.94	70.1	7.02
08/06/15	6:00:30	8/6/2015 6:00	15.22	0.29	7.95	70.3	7.05
08/06/15	6:30:30	8/6/2015 6:30	15.16	0.291	7.96	70.8	7.11
08/06/15	7:00:30	8/6/2015 7:00	15.14	0.291	7.98	72	7.24
08/06/15	7:30:30	8/6/2015 7:30	15.16	0.292	8.02	74	7.43
08/06/15	8:00:30	8/6/2015 8:00	15.24	0.293	8.09	76.4	7.66
08/06/15	8:30:30	8/6/2015 8:30	15.38	0.293	8.17	79.2	7.91
08/06/15	9:00:30	8/6/2015 9:00	15.59	0.293	8.29	82.8	8.24
08/06/15	9:30:30	8/6/2015 9:30	15.93	0.293	8.43	86.7	8.56
08/06/15	10:00:30	8/6/2015 10:00	16.37	0.292	8.58	90.5	8.85
08/06/15	10:30:31	8/6/2015 10:30	16.85	0.291	8.7	93.8	9.09
08/06/15	11:00:31	8/6/2015 11:00	17.34	0.29	8.78	96.4	9.24
08/06/15	11:30:30	8/6/2015 11:30	17.83	0.288	8.81	97.9	9.29
08/06/15	12:00:30	8/6/2015 12:00	18.27	0.287	8.84	99.7	9.38
08/06/15	12:30:30	8/6/2015 12:30	18.76	0.285	8.86	101.5	9.45
08/06/15	13:00:30	8/6/2015 13:00	19.25	0.283	8.88	102.6	9.46
08/06/15	13:30:30	8/6/2015 13:30	19.69	0.284	8.9	103.3	9.44
08/06/15	14:00:30	8/6/2015 14:00	20.12	0.377	8.98	103.4	9.37
08/06/15	14:30:30	8/6/2015 14:30	19.45	0.022	8.86	89	8.18
08/06/15	20:30:30	8/6/2015 20:30	19.09	0.368	8.6	80.7	7.46
08/06/15	21:00:30	8/6/2015 21:00	18.75	0.372	8.47	78.2	7.28
08/06/15	21:30:30	8/6/2015 21:30	18.42	0.375	8.32	76.4	7.17
08/06/15	22:00:30	8/6/2015 22:00	18.13	0.378	8.2	75.6	7.13
08/06/15	22:30:30	8/6/2015 22:30	17.89	0.379	8.1	75	7.11
08/06/15	23:00:30	8/6/2015 23:00	17.67	0.38	8.03	74.7	7.12
08/06/15	23:30:30	8/6/2015 23:30	17.46	0.381	7.99	74.7	7.14
08/07/15	0:00:30	8/7/2015 0:00	17.28	0.381	7.97	74.5	7.15
08/07/15	0:30:30	8/7/2015 0:30	17.12	0.382	7.95	74.8	7.21
08/07/15	1:00:30	8/7/2015 1:00	16.98	0.382	7.94	74.7	7.21

08/07/15	1:30:30	8/7/2015 1:30	16.85	0.381	7.94	74.7	7.23
08/07/15	2:00:30	8/7/2015 2:00	16.71	0.382	7.92	74.8	7.26
08/07/15	2:30:31	8/7/2015 2:30	16.55	0.383	7.91	74.3	7.24
08/07/15	3:00:31	8/7/2015 3:00	16.41	0.385	7.9	74.3	7.26
08/07/15	3:30:30	8/7/2015 3:30	16.26	0.39	7.89	74.3	7.28
08/07/15	4:00:30	8/7/2015 4:00	16.11	0.4	7.87	74.7	7.35
08/07/15	4:30:30	8/7/2015 4:30	15.99	0.415	7.81	74.5	7.35
08/07/15	5:00:30	8/7/2015 5:00	15.86	0.432	7.72	74.3	7.35
08/07/15	5:30:30	8/7/2015 5:30	15.76	0.449	7.62	74.1	7.34
08/07/15	6:00:30	8/7/2015 6:00	15.74	0.461	7.52	74.3	7.37
08/07/15	6:30:30	8/7/2015 6:30	15.72	0.467	7.43	73.8	7.32
08/07/15	7:00:30	8/7/2015 7:00	15.71	0.465	7.38	74.2	7.36
08/07/15	7:30:30	8/7/2015 7:30	15.74	0.458	7.38	74.4	7.38
08/07/15	8:00:30	8/7/2015 8:00	15.83	0.448	7.42	74.4	7.36
08/07/15	8:30:30	8/7/2015 8:30	15.92	0.436	7.48	75	7.41
08/07/15	9:00:30	8/7/2015 9:00	16.08	0.426	7.56	76.2	7.5
08/07/15	9:30:30	8/7/2015 9:30	16.24	0.417	7.63	76.3	7.48
08/07/15	10:00:31	8/7/2015 10:00	16.52	0.41	7.7	76.7	7.48

Best, Curtis

Curtis Hartenstine

Southern Ute Indian Tribe

Water Quality Progam Manager

970-563-4705

From: Wall, Dan [mailto:wall.dan@epa.gov]
Sent: Saturday, August 08, 2015 6:08 PM
To: Horn - DNR, Barb <barb.horn@state.co.us>; Peter Butler <butlerpeter2@gmail.com>;
Hartenstine, Curtis <charten@southernute-nsn.gov>
Subject: RE: For your information

And our initial water quality parameter data. We did see a pH drop at Bakers Bridge at the front edge of the plume.

From: Horn - DNR, Barb [<mailto:barb.horn@state.co.us>]
Sent: Saturday, August 08, 2015 4:45 PM
To: Peter Butler; Wall, Dan; charten@southernute-nsn.gov
Subject: For your information

I share this as a member of the Stakeholder group. Preliminary draft data available to you - please use accordingly as preliminary draft data/information.

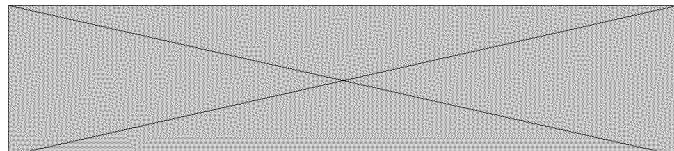
I hope we can coordinate data exchange in the future as information becomes available short term and for long term discussions, since we all have different information and limited capacities.

I don't know yet when and how CPW will decide to release the sentinel fish data, but look for the information.

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Barb Horn
Statewide Water Quality Specialist

Water Unit



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"Humankind, be both"